

Appl. No. 10/711,779
Amdt. dated May 23, 2007
Reply to Office action of February 26, 2007

Amendments to the drawings

Applicant submits a replaced sheet of Fig. 1, which corrects the element 10 to “DAC” and shows the corresponding signals generated by the related elements that eliminate the drawing problem noted in the Office Action.

REMARKS

The Examiner is thanked for the careful review of this application. Applicant has thoroughly reviewed the outstanding Office Action including the references cited therein. The following remarks are believed to be fully responsive
5 to the Office Action and to render all claims at issue patentably distinguishable over cited reference.

Drawings

The Fig. 1 should correct the element 10 to "DAC" and show the corresponding signals generated by the related elements. In response thereto, Applicant submits a substitute sheet of Fig. 1 to replace the original sheet.

Claim Rejection – 35 U.S.C. Section 112

10 Claims 1-7 are rejected under 35 U.S.C.112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use invention. Applicant disagrees on the examiner's opinions and Applicant
15 thinks the claims are really supported by the description in the specification. Accordingly, the rejections are respectfully traversed for at least the reasons set forth below.

As described in the paragraph [0019] of the original specification, "**The values of driving signals are obtained by the driving signal of the compensator
20 received by the ADC**". That means the driving signal generated by the compensator is transfer to driving signal value by the ADC (analog to digital converter). In the disclosed invention, Applicant finds that the driving signal is related to the ambient temperature of the optical pickup head and Applicant uses a ADC to receive the driving signal and transforms the driving signal to the driving
25 signal value. According to the driving signal value, the ambient temperature, which is detected by a temperature sensor in the conventional optical drive, can be

determined by using the look up table. In this way, the temperature sensor can be replaced by detecting a driving signal and a look up table recording the relationship of driving signal and the temperature. Therefore, Applicant thinks that “transforming the driving signal to a driving signal value by an analog to digital converter” recited in claims 1 and 5 is really supported by the specification.

Furthermore, since claims 1 and 5 do not claim “ the digital control signal is transformed into analog control signal by an digital to analog converter (DCA)”, there should be no any problem in the claims 4 and 7. Also, in paragraph [0016], the digital control signal is provided by firmware and the digital control signal should be converted to the analog control signal by the DAC for inputting to the close loop control circuit of the optical drive. That means claims 4 and 7 line 2-3 is supported by the specification.

Claim Rejection – 35 U.S.C. Section 103

Claims 1-7 are rejected under 35 U.S.C.103 (a) as being unpatentable over the admitted prior art in view of Nanba et al. (US 5,796,704). As will be fully described in the following, the admitted prior art combines with the cited references does not read on the claimed invention. Accordingly, the rejections are respectfully traversed for at least the reasons set forth below.

The Office Action alleged the statements of “transforming the driving signal to a driving signal value by an analog to digital converter (Fig.1, element 10)” and “ transforming the driving signal value to a temperature value according to a look up table (Fig. 1, element 25, 30, and 40)” are the admitted prior art disclosed in the specification. However, element 10 in the Fig.1 is a DAC, which converts a digital control signal to an analog control signal, and obviously the element 10 does not transform driving signal generated by the compensator to the driving signal value. Furthermore, the look up table in the disclosed invention is a device that provides relationship of the driving signal value and the temperature. For example, the look up table can be a read only memory. However, paragraphs [0004]-[0007] and elements 25, 30, 40 do not disclose any information related to the look up table

being capable of transforming the driving signal value to a temperature value. Also, they only disclose that the temperature is directly determined by the temperature sensor. Obviously, it is impossible for elements 25, 30, 40 to provide any temperature value to the optical drive.

5 For at least these reasons, independent claim 1 and 5 patently defines over the combination of admitted prior art and the cited art and should be allowed. Dependent claims 2-4 and 6-7 each depends from independent claim 1 or claim 5 also define over the combination of admitted prior art and the cited art for at least the same reasons.

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CONCLUSION

In light of the above remarks, Applicant respectfully submits that all claims 1-7 as originally presented are in condition for allowance and hereby requests reconsideration and allowance of these claims.

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Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Sincerely yours,

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Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)